

Medicinal Plant Resources of Nagarjuna Sagar Srisailam Wildlife Sanctuary (Rajiv Gandhi Wild Life Sannctuary)

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Abstract -The Nagarjunasagar Srisailam Wildlife Sanctuary (also known as Rajiv Gandhi) occurs on the Nallamala Ranges (78°30'— 79°28'E; 15°53'—16°43'N) in Andhra Pradesh at elevations varying from 100 to 917 m. The area consists mostly (80%) of the area is gently rolling to steeply hilly (incl. a ref. in support).. These ranges include many plateaus of which Amrabad, Srisailam, Peddacheruvu, Sivapuram, Nekkanti are noteworthy.

The present paper refers to 214 species belonging to 175 genera, 91 families. Out of 91 families, 85 are of angiosperms, five are of Pteridophytes and one is a gymnosperm. The medicinal ferns of Pteridophytes are *Adiantum caudatum*, *Actinopteris radiata*, *Christella dentate*, *Hemionitis arifolia*, and *Lygodium flexosum*. *Cycas beddomei* is the only one gymnosperm. There are 60 (27.02%) herbs, 41 shrubs (18.46%) 77 trees(34.68%), and 33(14.86%) climbers. 34.68% of medicinal plants constitute trees.

Key Words:— Eastern Ghats, Deities – Tribes.

I. INTRODUCTION:

The Nagarjunasagar Srisailam Wildlife Sanctuary (also known as Rajiv Gandhi) occurs on the Nallamala Ranges (78°30'— 79°28'E; 15°53'—16°43'N) in Andhra Pradesh at elevations varying from 100 to 917 m. The Elevation varies from 100 m (330 ft) to 917 m (3,009 ft) above mean sea level.

Nagarjunasagar Srisailam Wildlife Sanctuary was declared as a sanctuary in 1978 and made a part of 'Protect Tiger'in 1983. In 1992, the reserve was renamed as Rajiv Gandhi Wildlife Sanctuary. Apart from tigers, the reserve is home for Over 150 bird species also occur here. Srisailam and Nagarjunasagar dams serve as water sources.

The perennial water sources are generally located in the valleys and the plateaus suffer from acute scarcity of water during summers. The Krishna River cuts its basin almost 200 m deep over a distance of 130 km through the reserve. The mean temperatures are 16°C in June (name the months) winter (December) and 43°C in summer (May) (name the months).

II. STUDY AREA

Nagarjunasagar Srisailam Wildlife Sanctuary was declared as a sanctuary in 1978 and made a part of 'Protect Tiger'in 1983. In 1992, the reserve was renamed as Rajiv Gandhi Wildlife Sanctuary.

The main types of forest biomes in the reserve are : southern tropical dry deciduos forest *Hardwickia* forest and Deccan thorn scrub forests with much *Euphorbia* scrub. Important plant species here are : *Anogeissus latifolia* (axlewood) , *Cleistanthus collinus* (odcha) , *Terminalia* spp., *Pterocarpus marsupium* , *Hardwickia binata* (anjan tree), *Boswellia serrata* (Indian frankincense or Salai) , *Tectona grandis* (teak), *Mundulea sericea* and *Albizia* spp. (silk plants). (Champion H.G., Seth.S.K.1968).

III. MATERIALS AND METHODS

Field trips were undertaken during the four seasons- viz, Summer, Monsoon, Autumn and Winter in 2014–2016. Details such as vegetative, flowering and fruiting stages of the plant species were observed.. The plant specimens were collected and determined using Gamble (1967) and Hooker (1897). During the field work, the specimens collected for the preparation of herbarium were processed following Jain and Rao (1977).

IV. RESULTS

Table:1 list of species of Nagarjuna sagar srisailam wild life sanctuary

S.No	Botanical Name	Vernacular name	Family	Habit	Medicinal Uses
1	Abuliton indicum (L.)Sweet.Hort.Brit.	Duvvenakaya/ Tutturubenda	Malvaceae	Shrub	Haematuria
2	Acacia leucophloea (Roxb.) Willd.	Tella tumma	Mimosaceae	Tree	Diuretic
3	Accacia nilotica (L.) Willd.	Nallatumma	Mimosaceae	Tree	Cough;Diarrhoea
4	Achyranthes aspera L.	Uttareni	Amaranthaceae	Herb	Piles;Diuretic
5	Actinopteris radiata (Koenig ex Sw.)	Mayuri shika	Actinopteridaceae	Herb	Skin diseases
6	Adiantum caudatum L.	Raja hamsa	Adiantaceae	Herb	Diabetes
7	Adiantum lunulatum Burm.f.	Chitrapadu	Adiantaceae	Herb	Ulcers;Dysentery
8	Aegle marmelos (L.)	Maredu / Bilva	Rutaceae	Shrub	Dysentery
9	Aerva lantana (L.)	Pindikura	Amaranthaceae	Herb	Urinary diseases
10	Ageratum conyzoides L.	Goat weed	Asteraceae	Herb	Nervine tonic
11	Alangium salvifolium (L.f.)	Udaga / Ankolamu	Alangiaceae	Tree	Dog bite
12	Albizia amara (Roxb.)	Cheekireni	Mimosaceae	Tree	Inflammation
13	Albizia odoratissima (L.f.) Benth.	Chinduga	Mimosaceae	Tree	Leprosy
14	Alstonia scholaris L.	Edakulapala	Apocynaceae	Climber	Abdominal pains;Dysentery
15	Andrographis paniculata (Burm.f.) Wall.	Nelavemu	Acanthaceae	Herb	Fever
16	Androghapis nallamlayana Ellis.	Kachugadda	Acanthaceae	Herb	Leucorrhoea
17	Anisomelea malabarica (L.)	Moga-Bira	Lamiaceae	Shrub	Diarrhoea;Eczema
18	Annona reticulata L.	Ramaphalam	Annonaceae	Tree	Astringent
19	Anogeissus latifolia (Roxb.ex Dc.)	Chirimanu / Elamas	Combretaceae	Tree	Bitter tonic;Astring
20	Argemeone mexicana L.	Kusuma / Brahmadandi	Pepepaveraceae	Herb	Syphillis
21	Aristolochia bracteolata Lam.	Gadidagadapa	Aristolochiaceae	Herb	Skin diseases; Diabetes
22	Aristolochia indica L.	Easwari	Aristolochiaceae	Herb	Snake bite
23	Arisaema tortuosum Schott	Rollavagu	Araceae	Herb	Kill worms in Cattle
24	Asperagus gonclados Baker	Pillitegalu	Liliaceae	Herb	Galactagogue;Diabet es
25	Atalantia monophylla (L.)	Munukudu	Rutaceae	Shrub	Fever; Antiseptic
26	Azadirachta indica A.Juss. In Mem.Mus.Natl.	Vepa	Meliaceae	Tree	Skin diseases
27	Azima tetraantha Lam.	Tella uppili	Salvadoraceae	Shrub	Leprosy; Eczema
28	Bacopa monnieri (L.) Pernel	Brahmi	Scrophulriaceae	Herb	Memory booster
29	Baliospermum montanum (Willd.)	Konda audamu	Euphorbiaceae	Shrub	Stomach Pain;Laxative
30	Bamboosa arundinaceae(RETz.)Roxb.	Bongu Veduru	Bambusiaceae	Bush	Leprosy;Wounds
31	Bauhinia racemosa Lam.t	Are fibres	Caesalpinaceae	Tree	Malaria fever
32	Bauhinia vahlii Wight&Arn	Camel'sfoot climber	Caesalpinaceae	Perennial creeper	Aphrodisiac;Dysente ry
33	Blumea mollis (D.Don)Merr	Kukka pogaku	Asteraceae	Herb	Dropsy; Throat Infection
34	Boerhavia diffusa L.	Attamamidi	Nyctaginaceae	Herb	Urinary disorders
35	Boswelia serrata Roxb.	Sambrani	Burseraceae	Tree	Arthritis
36	Buchanania lanzam Spreng.	Morli	Anacardiaceae	Tree	Leucorrhoea
37	Buchanania oxilaris(Desr)Ramam.	Sara	Anacardiaceae	Tree	Boils; Cardio tonic; Wounds
38	Caesearia elliptica (Roxb.)	Chilakaduddi	Flacourtiaceae	Tree	Diabetes;Diuretic
39	Canscora diffusa (Vahl) R.Br	Shankhupuhi	Gentianaceae	Herb	Piles; Skin diseases
40	Capparis sepiaria L.	Nalla uppili	Capparaceae	Shrub	Febrifuge
41	Cardiospermum halicacabum L.Sp.	Buddakakara	Sapindaceae	Climber	Nervous disorders;Rhematism
42	Careya arborea Roxb.	Budda darimi	Barringtoniaceae	Tree	Eye diseases; Skin sores
43	Carmona retusa (Vahl)	Nomuchettu / Barranki	Boraginaceae	Shrub	Snake bite; Sterility
44	Canthium dicocum Teij.&Binn.	Nalla balusu	Rubiaceae	Tree	Fever;Diarrhoea
45	Cassia absus L.Sp.	Chanupala vittulu	Caesalpinaceae	Herb	Constipation; Cough
46	Cassia auriculata L.	Tangedu	Caesalpinaceae	Shrub	Diabetes
47	Cassia fistula L.Sp.	Rela	Caesalpinaceae	Tree	Diabetes
48	Cassia italica (Mill.)Spreng.	Nelatangedu	Caesalpinaceae	Herb	Bone fracture
49	Cassia montana Meyne ex.Roth.	Pyditangedu	Caesalpinaceae	Shrub	Body Pains
50	Cassia occidentalis L.Sp.	Kasinthu	Caesalpinaceae	Shrub	Laxative
51	Cassine glauca Kuntze	Neridi	Celastraceae	Tree	Eczema;Antidote
52	Cassytha filiformis L.	Sitamma savaralu	Lauraceae	Climber	Hair tonic; Dysentery

53	Catunaregam spinosa (Thung.)	Manga	Rubiaceae	Shrub	Astringent;Dysentery
54	Centella asiatica (L.)	Saraswathi	Apiaceae	Herb	Brain tonic
55	Celastrus paniculatus Willd.	Errasurugudu	Celastraceae	Tree	Brain tonic;Scabies
56	Celosia argentea L	Gunnugu	Amaranthaceae	Herb	Eczema;Ulcers
57	Chloroxylon swietenia DC.Prodr.	Billudu	Meliaceae	Tree	Rheumatism; Astringent
58	Chlorophytum arundinaceum Baker	Adavi ulli	Liliaceae	Herb	Aphrodisiac;Hydrocele
59	Cipadessa baccefera (Roth)Miq. In Ann.Mus	Ranaberi	Meliaceae	Shrub	Diabetes;Wounds
60	Cleome viscosa L	Yerraemiti	Cleomaceae	Herb	Wounds
61	Cissampelos pareira L. Var.hirsuta	Visha boddi	Menispermaceae	Shrub	Dropsy;Diabetes
62	Cissus quadrangularis L.	Nalleru	Vitaceae	Herb	Leucorrhoea;Piles
63	Cissus vetigenia L.Sp.Pl.	Adavi gummidi	Vitaceae	Climber	Wounds
64	Clerodendrum serratum Moon	Gantu bharangi	Veranaceae	Shrub	Febrifuge;Diabetes
65	Cocculus hirsutus (L.) Diels in Engl.	Dusari Teega	Menispermaceae	Climber	Rheumatism
66	Cochlospermum religiosum (L.) Alston	Konda gogu	Cochlospermaceae	Tree	Dysentery;Gonorrhoea
67	Coldenia procumbens L.	Hamsapadu	Boraginaceae	Herb	Rheumatism
68	Commifera caudata(Wightand Arn.)Engler	Kondaravi	Burseraceae	Tree	Rheumatism
69	Cordia dichotoma Forst.f	Bankamanu / Nakkeru	Boraginaceae	Tree	Bronchial disorders; Fever
70	Costus speciosus (Koen.)	Adavi allam/Chengalva cost	Costaceae	Herb	Snake bite
71	Ctenolepis gracini (Burm.f.)		Cucurbitaceae	Climber	Boils;Wounds
72	Curculigo orchiooides Gaertn.,Fruct.	Nelathati	Hypoxidaceae	Herb	Asthma;Anaemia
73	Cymopogon flexuosus(L.) Rendle	Nimma gaddi	Poaceae	Herb	Citral oil
74	Dalbergia latifolia Roxb.	Jittagi / Iridi	Fabaceae	Tree	Leprosy;Ulcers
75	Dalbergia paniculata Roxb.Pl.Cor.t.	Pacchari	Fabaceae	Tree	Filarial Swelling
76	Datura metal L.	Nalla ummetta	Solanaceae	Herb	Epilepsy
77	Datura stromonium L.	Ummetta	Solanaceae	Shrub	Asthma;Narcotic
78	Decalepis hamiltonii Wight & Arn	Maredu kommulu	Asclepiadaceae	Shrub	Haemorrhage;Appetizer
79	Decaschistia crotonifolia Wight & Arn	Adavigogu	Malvaceae	Shrub	Hydrocele
80	Deccannia pubescens (Roth)	Konda manga	Rubiaceae	Tree	Sores
81	Derris scandens (Roxb.)	Nalla teega	Fabaceae	Climber	Snake bite
82	Desmodium pulchellum (L.) Benth	Dayyapu jada	Papilionaceae	Shrub	Diarrhoea;Aphrodisiac
83	Desmodium triflorum (L.) Dc.	Munta mandu	Fabaceae	Herb	Galactagogue;Dysentery;
84	Dillenia pentagyna roxb.	Chinna kalinga	Dilleniaceae	Tree	Cooling agent for cattle
85	Diospyros ebenum Koen.	Nalla uti	Ebenaceae	Tree	Astringent
86	Diospyros melanoxylon Roxb.	Tumikaku	Ebenaceae	Tree	Astringent;diuretic
87	Dioscorea pentaphylla L.	Yeleru tiga	Dioscoreaceae	Vine	Leprosy;Dysentery
88	Dodonea viscosa (L.)Jacq.Enum.	Bandaru	Sapindaceae	Shrub	Bone fractures; Antipyretic
89	Eclipta prostrata (L.)	Gunta galijeru	Asteraceae	Herb	Asthma; Jaundice
90	Enicostema axillare (Lam.)	Gulividi	Gentianaceae	Herb	Scabies;Gout
91	Erithroxylon monogynum Roxb.	Devadari	Erythroxylaceae	Tree	Diuretic;Febrifuge
92	Euphorbia hirta L.	Nanabala	Euphorbiaceae	Herb	Cough;Dysentery
93	Euphorbia nivulia Buch.Ham	phorbiaAkujamudu	Euphorbiaceae	Shrub herb	Ruefacient;Diabetes
94	Evolvulus alsinoides(L.)	Vistikantha	Convolvulaceae	Herb	Asthma;Fever
95	Ficus benghalensis L.Sp.	Marri	Moraceae	Tree	Rheumatism
96	Ficus hispida		Moraceae	Shrub	Leucoderma
97	Ficus microcarpa L.	Pittamarri	Moraceae	Tree	Wounds;Diabetes
98	Flacouria indica (Burm.f.)Merr.	Putikada	Flacourtiaceae	Shrub	Astringent;Appetiser
99	Ficus tinctoria Forst.f.subsp.parasitica (willd.)Corner	Tellabarica	Moraceae	Medium sized tree.	Fever;Stringent
100	Gardenia resinifera Roth.	Erribikki	Rubiaceae	Tree	Constipation; Bronchitis
101	Givotia moluccaina(L.)	Tella poliki	Euphorbiaceae	Tree	Drandruf;Psoriasis
102	Gloriosa superba L.Sp.Pi.	Nabhi / Naigetigadda	Liliaceae	Climber	Abortifacient;Leprosy
103	Glycosmis pentaphylla (Retz) DC.	Gonji	Rutaceae	Shrub	Diabetes; Eczema
104	Gymnema sylvestre (Retz)	Podapatri	Asclepiadaceae	Shrub	Diabetes
105	Gyrocarpus americanus jacq	Kummari puliki	Hernandiaceae	Tree	Cancer
106	Gyrocarpus asiaticus Willd.	Taniki /Nalla poliki	Hernandiaceae	Tree	Cancer

107	Haldinia cordifolia (Roxb)	Rudra ganapa	Rubiaceae	Tree	Stomachic
108	Hardwickia binata Roxb.	Yepi	Caesalpiniaceae	Tree	Rheumatism
109	Hedditus peberula (G.Don) Arn.	Chiruveru	Rubiaceae	Herb	Asthma; bronchites
110	Hedyotis affinis Roem and Schult.	Gorlaum		Herb	Gonorrhoea
111	Hedyotis corymbosa (L.)	Vermela – vemu	Rubiaceae	Herb	Stomachic; diarrhoea
112	Hedyotis herbacea L.	Chiriveru	Rubiaceae	Herb	Febrifuge, Rheumatism
113	Helicters isora L.	Gooba thada	Sterculiaceae	Shrub	Desentery; Diabetes
114	Hemidesmus indicus (L.) var. inducus	Sugandhapala	Periplocaceae	Herb	Cooling Bevarage; Cardio tonic
115	Hemionitis arifolia (Burm.f.) Moore	Rama bhanam	Hemionitidaceae	Herb	Antidiabetes
116	Hiptage benghalensis (L.) Kurz	Madhavi tega	Malphiagiaceae	Climber	Liver disorders; Dysentery
117	Holarrhena antidysenterica (Roxb. ex Fleming)	Kola musthi / pala / kodisapala	Apocynaceae	Tree	Diabetes; Antidysentric
118	Holostemma ada-kodein Schultes	Tella jilledu / Peyyi baddu	Asclepediaceae	Climber	Diabetes; Gonorrhoea
119	Holarrhena pubescens (Roxb. ex Fleming) Wall	Kodicipala	Apocynaceae	Tree	Mouth Ulcers; Diabetes
120	Holoptelea integrifolia (Roxb.) Planch.	Nemlinara	Ulmaceae	Tree	Piles; fistula; Scabies
121	Hybanthus enneaspermus (L.) Muell. Arg. Fragm.	Ratna purusha	Violaceae	Herb	Impotency; Antidote
122	Ichnocarpus frutescens (L.) R.Br.	Palateega	Apocynaceae	Climber	Blood Purifier
123	Indigofera cassioides	Kondaneeli	Papilionaceae	Errect shrub	Cough
124	Ipomea mauritiana Jacq.	Vidarkada	Convolvulaceae	Climber	Galactagogue
125	Ixora arborea Roxb. ex Smith	Gorivi	Rubiaceae	Tree	Urinary disorders; Dysentery
126	Ixora pavetta Andr. Bot. Repos. t.	Korivi / Papidi	Rubiaceae	Tree	Urinary disorders; Dysentery
127	Jasminum auriculatum Vahl.	Adavimalli	Oleaceae	Climber	Dropsy; Expectorent
128	Justicia adhatoda L.	Addasaram	Acanthaceae	Shrub	Asthma; Diabetes
129	Lanea coromandalica (Houtt.) Merr.	Gumpidi	Anacardiaceae	Tree	Nervous diseases; Diabetes
130	Lantana camara L.	Phallikampa	Verbanaceae	Shrub	Cuts; Wounds
131	Leonotis nepetiifolia (L.) R.Br. Prodr	Ranabheri	Lamiaceae	Herb	Burns; Rheumatism
132	Lepidogathis cristata Willd.	Nakkapeethiri	Acanthaceae	Herb	Dandruf; Dental problems
133	Lepisanthes tetraphylla (Wall.) Radf.	Sali kunkudu	Sapindaceae	Tree	Skin diseases; Dandruf
134	Limnophila indica (L.)	Sambrani	Scrophulriaceae	Herb	Dysentery; Carminative
135	Litsea glutinosa (Lour.) Robin.	Pullamamidi	Lauracea	Tree	Bone fracture
136	Lygodium flexuosum (Linn.)	Mekasannu	Schizaeaceae	Climber	Scabies; Eczema
137	Madhuca longifolia (Koen.) Macbr.	Ippa	Sapotaceae	Tree	Diabetes; Vigour
138	Maeruva oblongifolia (Forsk.)	Magasirigadda	Capparidaceae	Shrub	Diabetes; Stimulant
139	Manikara hexandra (Roxb.)	Pala	Sapotaceae	Tree	Aphrodisiac; Ulcers
140	Maytenus emarginata (Willd.) Ding. Hou	Danthi	Celastraceae	Tree	Dysentery; Gastrointestinal problems
141	Momordica charantia L. var. muricata Willd	Buddakakara	Cucurbitaceae	Climber	Rheumatism; Diabetes
142	Ochna obtusata DC.	Errijambi	Ochnaceae	Shrub	Asthma; Menstrual complaints
143	Olax scandens Roxb.	Mekabanda	Olacaceae	Climber	Fevers; Anaemia
144	Opilia amentacea Roxb.	Nallamekabanda	Opilaceae	Climber	Snake bite
145	Oroxylum indicum (L.) Ven	Bapana Pumpena	Bignoniaceae	Tree	Rheumatism; Oedema
146	Paracalyx scariosa (Roxb.) Ali.	Adavitellakandi	Papilionaceae	Climbing Shrub	Dysentery; Astringent
147	Pavonia xylanica (L.) Cav.	Adavi puttudu / Chirubenda	Malvaceae	Herb	Antihelmenthic; Febrifuge
148	Peristrophe paniculata (Frossk.) Brummitt	Chebera	Acanthaceae	Herb	Wounds; Skin diseases
149	Phyllanthus amarus Schum & Thonn	Nelausiri	Euphorbiaceae	Herb	Jaundice
150	Phyllanthus emblica L.	Nelli / Usiri	Euphorbiaceae	Tree	Asthma
151	Physalis minima L.	Budama	Solanaceae	Herb	Fevers
152	Piper nigrum Linn.	Adavi miriyalu	Piperaceae	Herb	Muscle pain; Sprains
153	Piper sylevestre.	Toka mereyalu	Piperaceae	Climber	Rubefacient; Diabetes
154	Piper trioicum Roxb. Ham. ex. Miq.	Pamumiriyalu	Piperaceae	Climber	Rubefacient; Diabetes
155	Plumbago zeylanica Linn.	Tella chitramulam	Plumbaginaceae	Herb	Leucoderma; Scabies
156	Polygonum glabrum Willd.	Golucu chettu	Polygonaceae	Herb	Jaundice; Febrifuge
157	Pouzolzia zeylanica (L.) Benn.	Uchchlagadda	Urticaceae	Herb	Snake bite; Galactogogu

158	<i>Premna tomentosa</i> Willd	Narava/ Namari	Verbanaceae	Tree	Jaundice; Dropsy
159	<i>Pseudarthria vicida</i> (Linn.)	Antrita Mayakuponna	Fabaceae	Shrub	Rheumatism; Asthma
160	<i>Pterospermum xylocarpum</i> (Gaertn.)	Tada	Sterculiaceae	Tree	Leucorrhoea
161	<i>Pupalia lapacea</i> (L.) Juss.	Antudu chettu	Amaranthaceae	Herb	Cough; Fever
162	<i>Rivea hypocyrtiferum</i> (Desr.)	Boddi teega	Convolvulaceae	Shrub	Parturition
163	<i>Pueraria tuburosea</i> Roxb. ex Willd.	Chenchu gadda / Bhoochakra	Fabaceae	Climber	Asthma; Lactagogue
164	<i>Salvadora persica</i> L.	Nalla uppili/ Varagogu	Salvadoraceae	Tree	Asthma; Joint Pains
165	<i>Sansevieria roxburghiana</i> Schult.f.	Saganara	Agavaceae	Herbs	Cough; Piles
166	<i>Santalum album</i> L.	Chandanam , Srigandham	Santalaceae	Tree	Diuretic; Diabetes
167	<i>Sarchostemma acidum</i> (Roxb.) Voigt.	Pullangi tiga	Asclepiadaceae	Leafless Climbing succulent, jointed shrub	Rejuvenate; Odema
168	<i>Scoparia dulcis</i> L.	Mrugandhi chettu	Scrophulariaceae	Herb	Diabetes; Astringent
169	<i>Schleichera oleosa</i> (Lour)	Pushka	Sapindaceae	Tree	Macassar oil
170	<i>Schrebera swietenoides</i> Roxb.	Mokkem chettu	Oleaceae	Tree	Leprosy; Diabetes
171	<i>Scilla hyacinthina</i> (Roth)	Nakkeragadda	Liliaceae	Herb	Diuretic
172	<i>Shorea roxburghii</i> G. Don Gen. Syst.	Jalari	Dipterocarpaceae	Tree	Astringent; Rheumatism
173	<i>Solanum melanogena</i> L. var. <i>insanum</i> L.	Chiruvanga	Solanaceae	Shrub	Toothache
174	<i>Smilax zeylanica</i> Linn.	Phirangichekka	Liliaceae	Climber	Diabetes; Syphilis
175	<i>Solanum surrattense</i> Burm. F.	Errivanga	Solanaceae	Tree	Diuretic; Cough
176	<i>Solanum trilobatum</i> L.	Mulla mushti	Solanaceae	Climber	Bronchitis
177	<i>Soyimida febrifuga</i> (Roxb)	Somi	Meliaceae	Tree	Dysentery; Diarrhoea
178	<i>Sphaeranthus indicus</i> L.	Bodasaram	Asteraceae	Herb	Rejuvenate; Diabetes
179	<i>Strychnos nux vomica</i> L.	Musti	Loaniaceae	Trees	Rheumatism; Leprosy
180	<i>Strychnos potatorum</i> L. f.	Musthi	Loganiaceae	Tree	Gonorrhoea
181	<i>Sterculia urens</i> Roxb.	Kovila chettu	Sterculiaceae	Tree	Diabetes
182	<i>Suregada angustifolia</i> (Baill. ex Muell. Arg)	Sapranchi	Euphorbiaceae	Shrub	Leprosy; Ankle pains
183	<i>Syzygium cumini</i> (L.)	Neredu	Myrtaceae	Tree	Urinary Calculi
184	<i>Syzygium alternifolium</i> (Wight) Walp.	Mogi	Myrtaceae	Tree	Diabetes; Joint Pains
185	<i>Tarenna asiatica</i> L.	Kommi	Rubiaceae	Shrub	Eczema; Cough
186	<i>Tephrosia purperia</i> (L.) Pers	Yempali	Papilionaceae	Under Shrub	Asthma; Snake bite
187	<i>Terminalia alata</i> Roth	Nallamadhi	Combretaceae	Tree	Constipation; Diabetes
188	<i>Terminalia arjuna</i> (DC.) Wight & Arn	Arjuna / Tella maddi	Combretaceae	Tree	Obesity; Heart diseases
189	<i>Terminalia bellirica</i> (Gaertn.)	Thandra / tani	Combretaceae	Tree	Hypertension; Tridosha
190	<i>Terminalia pallida</i> Brandis	Tella karaka	Combretaceae	Tree	Dysentery; Cough
191	<i>Terminalia chebula</i> Retz.	Karaka	Combretaceae	Tree	Jaundice; Piles
192	<i>Tinospora cordifolia</i> (Willd.) Hook. f. & Thoms	Tippa teega	Menispermaceae	Climber	Diarrhoea; Cough
193	<i>Toddalia asiatica</i> L. Lam. Var. <i>floribunda</i>	Konda nimma	Rutaceae	Shrub	Gonorrhoea
194	<i>Tribulus terrestris</i> L.	Palleru	Zygophyllaceae	Herb	Retention of Urine; Leucorrhoea
195	<i>Trichosanthes cucumerina</i> Linn.	Chedu potla	Cucurbitaceae	Climber	Diabetes; Hepatoprotective
196	<i>Trichosanthes tricuspidata</i> Lour.	Papara	Cucurbitaceae	Climber	Headache; Sores
197	<i>Tridax procumbens</i> L.	Gaddi chamanthi	Asteraceae	Herb	Antiseptic
198	<i>Tylophora indica</i> (Burm. f.)	Kakkupala	Asclepiadaceae	climber	Asthma
199	<i>Vanda spathulata</i> L.	Nusti bhadhanika	Orchidaceae	Herb	Asthma; Consumption
200	<i>Vanda roxburghii</i> Nicolson in Salda	Veduru bhadhanika	Orchidaceae	Herb	Fevers; Rheumatic swellings
201	<i>Vanda tessellate</i> (Roxb.) Hook. ex. G. Don	Badanika	Orchidaceae	Epiphyte	Rheumatic Swellings ; Bone fractures
202	<i>Ventilago denticulata</i> Willd.	Surati / Surudu	Rhamnaceae	Climber	Sprains; Malaria fever
203	<i>Vernonia anthelmintica</i> (L.)	Adavi jeelakarra	Asteraceae	Herb	Digestion
204	<i>Vernonia cinerea</i> (L.) Less	Sahadevi	Asteraceae	Errect herb	Blood disorders; Antihelminthic
205	<i>Vetiveria zizanioides</i> (L.)	Vattiveru	Poaceae	Herb	Diabetes; Cooling agent
206	<i>Viscum articulatum</i> Burm. f.	Badanika	Viscaceae	Shrub	Epilepsy; Ulcers
207	<i>Vitex altissima</i> L. f. syppl.	Nemaliadugu	Verbanaceae	Tree	Leprosy; Cardiac diseases
208	<i>Walsura trifolia</i> (A. Juss)	Valudu	Meliaceae	Tree	Emmenagogue

209	<i>Wattakaka volubilis</i> (L.f.)	Kallisi	Asclepiaceae	Climber	Snake bite; Body Pains
210	<i>Withania somnifera</i> (Linn.)	Ashwagandha	Solanaceae	Herb	Fever; Aphrodisiac
211	<i>Wrightia arborea</i> (Dennst.) Mabb	Peddapala	Apocynaceae	Tree	Dysentery; Skin diseases
212	<i>Wrightia tinctoria</i> (Roxb.) R.Br.	Reppala	Apocynaceae	Tree	Cough; Antihelmintic
213	<i>Ziziphus mauritiana</i> Lam. Encycl.	Regu	Rhamnaceae	Tree	Diarrhoea; Scorpion Sting
214	<i>Ziziphus xylopyrus</i> (Retz.)	Gotti	Rhamnaceae	Tree	Diarrhoea; Asthma
Critically Endangered Plants (CE)					
1	<i>Actinopterys radiata</i> (SW) Lin.	Mayura sikha	Polypodiaceae	Herb	Skin diseases
2	<i>Arisaema tortuosum</i> Schott	Rollavagu	Araceae	Herb	Kill worms in cattle
3	<i>Aristolochia indica</i> Linn.	Eswari	Aristolochaceae	Climber	Snake bite
4	<i>Aristolochia bracteata</i> RETZ.	Gadidagodapaku	Aristolochaceae	Herb	Skin diseases; Diabetes
5	<i>Cochlospermum religiosum</i> (L.) Alston	Kondagogu	Cochlospermaceae	Herb	Dysentery; Gonorrhoea
6	<i>Costus speciosus</i> (Koen.)	Adaviallamu	Zinziberaceae	Herb	Snake bite
7	<i>Decalepis hamiltonii</i> Wt & Arn	Maredu Kommulu	Asclepiaceae	Climber	Haemorrhage; Appetizer
8	<i>Gymnema sylvestris</i> (RETZ)	Meshashrunji	Asclepiaceae	Climber	Diabetes
9	<i>Henuornitis arifolia</i> (Burm.f)	Ramabanamu	Adiantaceae	Lithophyte herb	Antidiabetes
10	<i>Lygodium flexuosum</i> (Linn)	Bangaruteega	Shizeaceae	Climber fern	Scabies; Eczema
11	<i>Piper trioicum</i> Roxb Ham. ex. Miq.	Pamumiriyalu	Piperaceae	Climber	Rubefacient; Diabetes
12	<i>Piper nigrum</i> Linn.	Adavimiriyaalu	Piperaceae	Climber	Muscle pains; Sprains
13	<i>Plumbago zeylanica</i> Linn.	Chitramulamu	Plumbaginaceae	Bush	Leucoderma; Scabies
14	<i>Pueraria tuberosa</i> (Willd.)	Darigummadi	Fabaceae	Climber	Asthma; Lactagogue
15	<i>Tylophora indica</i> (Burm.f.)	Mekameyniaku	Asclepiaceae	Climber	Asthma
16	<i>Vanda spathulata</i> (Linn.)	Badanika	Orchidaceae	Epiphyte	Asthma; Consumption
17	<i>Vanda tessellata</i> (Roxb.)	Badanika	Orchidaceae	Epiphyte	Rheumatic swellings; Bone fractures
18	<i>Withania somnifera</i> (Linn.)	Ashwagandha	Solanaceae	Herb	Fever; Aphrodisiac
Endangered Plants (EN)					
1	<i>Alstonia scholaris</i> R.	Edakula ponna	Apocynaceae	Tree	Abdominal pains; Dysentery
2	<i>Boswellia serrata</i> Roxb.	Konda sabrani	Burseraceae	Tree	Arthritis
3	<i>Caesaria elliptica</i> (Roxb.)	Chilakaduddi	Flacourtiaceae		Diuretic; Diabetes
4	<i>Canthium dicocum</i> Tej. & Binn.	Nallabalu	Rubiaceae	Tree	Fever; Diarrhoea
5	<i>Cardiospermum halicacabum</i> Linn.	Peddabudda	Sapindaceae	Climber	Nervous disorders; Rheumatism
6	<i>Careya arborea</i> Roxb.	Budda burusu	Barringtoniaceae	Tree	Eye diseases; Skin Sores
7	<i>Centella asiatica</i> Urb.	Saraswathiaku	Apiaceae	Herb	Brain tonic
8	<i>Chlorophytum arundinaceum</i> Baker	Adavi Ulli	Liliaceae	Herb	Aphrodisiac; Hydrocele
9	<i>Dillenia pentagyna</i> Roxb.	Chinna kalinga	Dilliniaceae	Tree	Cooling agent for cattle
10	<i>Flacouria indica</i> (Burm. f.) Merr.	Putikada	Flacourtiaceae	Shrub	Astringent; Appetiser
11	<i>Gloriosa superba</i> Linn.	Nabhi	Liliaceae	Herb	Abortifacient; Leprosy
12	<i>Hemidesmus indicus</i> (Linn.) R.Br.	Sugandhapala	Asclepiaceae	Twinnig Shrub	Cooling beverage; Cardio tonic
13	<i>Hybanthes ennaespermus</i> (Linn.)	Ratnapurusha	Violaceae	Herb	Impotency; Antidote
14	<i>Ipomoea mauritiana</i> Jacq.	Vidarkanda	Convolvulaceae	Climber	Galactagogue
15	<i>Opilia amentacea</i> Roxb.	Adavi bandedi	Opiliaceae	Tree	Snake bite
16	<i>Oroxylum indicum</i> (Linn.)	Pampini	Bignoniaceae	Tree	Rheumatism; Oedema
17	<i>Schleichera oleosa</i> (Lour)	Pushka	Sapindaceae	Tree	Macassar oil
18	<i>Smilax zeylanica</i> Linn.	Phirangichikka	Loganiaceae	Climber	Diabetes; Syphilis
19	<i>Strychnos nux-vomica</i> Linn.	Nagamustni	Loganiaceae	Tree	Rheumatism; Leprosy
20	<i>Strychnos potatorum</i> Linn.	Chillalingalu	Loganiaceae	Tree	Gonorrhoea
21	<i>Syzygium alternifolium</i> (Wt.)	Movi	Myrtaceae	Tree	Diabetes; Joint pains
22	<i>Trichosanthes cucumerina</i> Linn.	Chedu potla	Cucurbitaceae	Climber	Diabetes; Hepatoprote
23	<i>Vernonia anthlemintica</i> (Linn.)	Adavi jeelakarra	Asteraceae	Shrub	Digestion
Near Threatened Plants (NT)					
1	<i>Aegle marmelos</i> (Linn.)	Maredu	Rutaceae	Tree	Dysentery

2	<i>Andrographis paniculata</i> Wall	Nelavemu	Acanthaceae	Herb	Fever
3	<i>Argemone mexicana</i> Linn.	Verri kusuma	Papavaraceae	Shrub	Syphilis
4	<i>Asperagus gonclados</i> Baker	Pilliteegalu	Liliaceae	Herb	Galactagogue;Diabetes
5	<i>Baliospermum montanum</i> (Willd.)	Konda audamu	Euphorbiaceae	Shrub	Stomach pain;Laxative
6	<i>Cassine glauca</i> Kuntze	Neridi	Celastraceae	Tree	Eczema,Antidote
7	<i>Caelatrus paniculatus</i> Willd.	Errasurugudu	Celastraceae	Tree	Brain tonic;Scabies
8	<i>Clerodendrum serratum</i> Moon	Gantu bharangi	Verbanaceae	Shrub	Febrifuge;Diabetes
9	<i>Commifera caudata</i> Engler	Kondamamidi	Burseraceae	Tree	Rhematism
10	<i>Cordia dichotoma</i> Forst.	Banka Iriki	Boraginaceae	Tree	Bronchial disorders
11	<i>Ctenolepis garcini</i> (Burm.f.)		Cucurbitaceae	Climber	Boils;Wounds
12	<i>Curculogo orchaiodes</i> Gaetn	Nelathadi	Hypoxidaceae	Herb	Asthma;Anaemia
13	<i>Euphorbia nivulia</i> Buch.	Aku jamudu	Euphorbiaceae	Tree	Diabetes;
14	<i>Holostemma ada-kodein</i> Schult.	Pala gurija	Asclepiadaceae	Climber	Diabetes;Gonorrhoea
15	<i>Maeruva oblangifolia</i> (Forsk)	Magaubsirigadda	Capparaceae	Shrub	Stimulant;Diabetes
16	<i>Ochna obtusata</i> DC	Kukka-Mogu	Ochnaceae	Tree	Asthma;Menstrual complaints
17	<i>Pseudarthria vicida</i> (Linn.)	Antrita Mayakuponna	Fabaceae	Shrub	Rheumatism;Asthma
18	<i>Schrebera swleteniodes</i> Roxb.	Mokem Chettu	Oleaceae	Tree	Leprosy;Diabetes
19	<i>Soymida febrifuga</i> (Roxb.)	Somi/Somintha	Meliaceae	Tree	Dysentery;Diarrhoea
Rare Plants					
1	<i>Andrographis nallamalayana</i>	Nelavemu	Acanthaceae		Leucorrhoea
2	<i>Gyrocarpus americanus</i> Jacq.	Kummari puliki	Hernandiaceae	Tree	Cancer

VI DISCUSSION

Nagarjunasagar Srisailam Wildlife Sanctuary in the Eastern Ghats is a rich biodiversity landscape of Deccan. The total number of medicinal plant species collected in this study from Nagarjunasagar Srisailam Wildlife Sanctuary is 214 species of 175 genera belonging to 91 families. Among these 18 Critically Endangered Plants (CE); 23 Endangered Plants (EN); 19 Near Threatened Plants (NT) ; 2 rare Plants are recorded.

VII CONCLUSION

This report will be useful for researchers in the field of Ethanobotany, Ethanomedicine, Taxonomy, and Pharmacology for further studies. The tribals and local people who reside near and around the Sanctuary still depend on the plants to cure various ailments. This study also aims to create awareness among the non-tribal main stream society so as to realise the value of the sustainable biodiversity of wild life sanctuary. Numerous anthropogenic

activities like developmental projects, eco-tourism, modernization, urbanization, overexploitation, over grazing are the major threats for the wild life sanctuary. This recognizes the need to conserve its biological resources. Wild life sanctuaries depict cultural, traditional, sociological, biological, economical values and are the chief method of in-situ conservation of biodiversity. Conservation of biological resources and of the indigenous traditional knowledge is essential for sustainable development and managing natural resources the world over. The history of indigenous knowledge as an old as the human race. This knowledge has always been very important for the people who generate it. It is a matter of survival for them. Two Rare medicinal plants *Andrographis nallamalayana*, and *Gyrocarpus americanus* Jacq. were found in the study area

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Fig.1-Map of Nagarjunasagar Srisailam Tiger Reserve (Rajiv Gandhi Wild Life Sanctuary)



REFERENCES

- [1] BARTLE , L. 1997. Why do we need new crops as alternative sources for industrial and medicinal material. In "Domestication, production and utilization of new crops (eds) J SMART & N Haq Colorilene Printers, Bangladesh.
- [2] BHANDARY , M.J. K.R. CHANDRASEKHAR 2003. Wild life sanctuaries of Dakshina Kannada and Udupi districts of Karnataka. *Curr. Sci.* **85**: 1655–1656.
- [3] GAMBLE , J.S. 1915-36. Flora of Presidency of Madras, Adlard and Son Ltd. London s 1:55.
- [4] GAMBLE , J.S. & C.E.C. FISHER 1967. Flora of the Presidency of Madaras, Vol. 1–3, Calcutta.
- [5] HOOKER , J.D. 1897. The Flora of British India, Vol.1–7, Reeve, L. Co. Ltd. Ashford kant, London.
- [6] JAIN, S.K. & R.R. RAO 1977. Field and Herbarium Methods. Today and Tomorrow's Printers and Publishers, New Delhi.
- [7] LAKSHMINARAYANA, K. & M. VENKAIAH 1998. Biodiversity in the wild life sanctuaries of the NorthCostal Districts of Andhra Pradesh. National symposium on conservation of Eastern Ghats, pp 52–58.
- [8] PRAKASH RAO , J. & T. NAIDU 2010. Diversity of Vascular Plants in the sacred groove of Uppa from Eastern Ghats, Visakhapatnam District in Andhra Pradesh, *J Indian bot. Soc.* **3**: 406–411.
- [9] RANGA RAO , T. R. 1901. The yanadis of Nellore district. *Bull. Madras Govt. Museum IV* **2**: 87–113.
- [10] RAVI PRASAD RAO , B. 1998. Wild life sanctuaries in Southern Eastern Ghats, India. Paper presented in International Conference on Conservation of Tropical Species. Communities and Ecosystems (Abstract)2-6 December, Trivendrum..
- [11] REDDY , K. N. and SUDHAKAR REDDY, C. 2008. First red list of medicinal plants of Andhra Pradesh, India. Conservation Assessment and Management Planning. *Ethnobotanical Leaflets* **12**: 103–107.
- [12] SAVITRAMMA, N. BASHA, S. K. M., RAO, K. N. 2002. Ethnobotanical wealth of Sriharikota Andhra Pradesh in Cultural Ecology of Indian Tribes Eds., Raj publication , New Delhi pp. 200–235.
- [13] SURYA NARAYANA, B. & SREENIVASA RAO , A. 2002, Flora of Nellore District, Andhra Pradesh, Gurudev Prakasham Publications